Surjana Joshi

✉ surjana.joshi42@gmail.com

📞 9860467809

📍 Kathmandu, Nepal

⚙ https://github.com/SurjanaJ

Profile

As a highly motivated and dedicated individual, I am actively seeking opportunities that allow me to apply and further develop my analytical skills, programming expertise, and unwavering passion for data-driven insights. I am eager to be involved in a dynamic team, and potentially contribute by applying my knowledge in statistical analysis, machine learning, and data visualization to solve complex problems. I am driven by a fascination for figuring out patterns and trends within data, and I thrive in collaborative environments that encourage innovation and continuous learning.

Professional Experience

2023/04 – Present Kathmandu, Nepal	**Web Developer** *Plutonic Tech* • Developed and maintained interactive and responsive web applications using React.js and modern front-end technologies, resulting in enhanced user engagement and improved site performance. • Developed a versatile data management web application using Django and utilized data manipulation libraries efficient data handling. • Created a comprehensive data repository capable of storing various data types, including import/export statistics and data from different sectors of the country. • Conducted thorough testing and debugging to identify and fix issues, resulting in smoother application workflows and reduced errors.
2022/03 – 2022/09 Kathmandu, Nepal	**Web Developer** *Deerhold Pvt Ltd* • Developed user interfaces for deployment of a Human Resource Management web application used to manage the administrative activities of the organization. • Collaborated with project managers to select ambitious, but realistic coding milestones on pre-release of the project. • Programmed REST calls using React to streamline user interface performance. • Updated existing code bases to improve functionality.
2023/05 – Present Kathmandu, Nepal	**IELTS Instructor** *Arete Education Consultancy* • Conducted IELTS preparation classes for groups of up to 10 students, focusing on all four language skills: Listening, Reading, Writing, and Speaking. • Developed and implemented lesson plans tailored to students' language levels and individual needs • Provided individualized feedback and guidance to students to help them identify areas for improvement and develop effective study strategies.

Education

2017 – 2022 Kathmandu, Nepal	**Bachelors of Science in Computer Science and Information Technology** *Deerwalk Institute of Technology* **Relevant coursework** Algorithms and Data Structures, Probability and Statistics, Linear Algebra, Artificial Intelligence, Data Mining, Database Systems and SQL

Undergrad Final Year Project
Visualizer For Pathfinding Algorithms and Sorting Algorithms:

- Designed and developed a dynamic educational website using JavaScript to create interactive visualizations of pathfinding and sorting algorithms.
- The primary goal was to enhance users' comprehension of algorithmic processes by animating the step-by-step workings of these algorithms.

Skills

Programming languages and Frameworks
Python, C, C++, HTML, CSS, JavaScript, React, Django

Data manipulation/analysis
Pandas, NumPy, Feature Engineering

Data visualization
Matplotlib, Seaborn

Data Querying and Database Systems
SQL, MySQL, MsSQL

Version Control
Git, GitHub

Projects

Car Price Prediction Project

- Created a versatile used car valuation tool that allows car dealerships and buyers to estimate the market value of pre-owned vehicles based on their characteristics.
- Conducted Exploratory Data Analysis to establish a robust Validation Framework, implemented Linear Regression for model training, and used Root Mean Square Error (RMSE) as a key metric to assess prediction accuracy

Customer Churn Prediction using Binary Classification

- Constructed a machine learning model, employing classification techniques to pinpoint customers at risk of churning or ending their association with a business.
- The project's binary framework offers concise and actionable insights for informed decision-making.

DataBank
Databank is a comprehensive data management web application developed using Django, Bootstrap, and key data manipulation libraries such as Pandas, NumPy.

- Databank allows users to store diverse datasets with ease. Data can be added to the database in two ways: through the straightforward process of uploading an Excel file or by manually inputting data via a user-friendly form directly on the website.
- Users can efficiently filter data based on various parameters, including date, product, quantity, country, and import or export type.
- Databank offers a powerful data export feature. Users can not only export raw data to Excel files but also tailor their exports by applying filters to the data. This empowers users to obtain precisely the dataset they need for further analysis and reporting.